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08100467 E.I. No: EIP98084344261

Title: Speech input interface for Web page query based on a dynamic language model architecture

Author: Shyuu, Jyh-Shing; Wang, Jhing-Fa

Corporate Source: Natl Cheng Kung Univ, Tainan, Taiwan

Conference Title: Proceedings of the 1998 17th Conference on Consumer Electronics

Conference Location: Los Angeles, CA, USA **Conference Date:** 19980602-19980604

E.I. Conference No.: 48804

Source: Digest of Technical Papers - IEEE International Conference on Consumer Electronics 1998. IEEE, Piscataway, NJ, USA, 98CH36160. p 82-83 TUAM 6.2

Publication Year: 1998

CODEN: DTPEEL **ISSN:** 0747-668X

Language: English

Title: Speech input interface for Web page query based on a dynamic language model architecture

Abstract: Speech query is more natural and convenient than text in the Web page information retrieval. The severe problem for speech query is that there exist out-of-vocabulary words or unknown words in most of the Web pages and this induces the difficulty to recognize the speech from syllable lattice into the correct text. In this paper, we propose a dynamic language model architecture that is a Web page based language model to correctly convert speech into text. The proposed method extracts language information and builds a weighted language model for each browsing page before the HTML document goes into the browser. In this manner, the language information for the Web page including those out-of-vocabulary words are well estimated in the weighted language model. In recognizing the speech into text, the weighted language model is first looked up and returns a weighting factor for the universal language model. Eventually, the syllable lattice of the recognized speech can be correctly decoded into text for text query. (Author abstract...)

Identifiers: Hypertext markup language (HTML)

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01679372 ORDER NO: AAD99-13213

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S12	12	S S11 NOT S10
S13	9	S S12 NOT AD=20030804:20080117/PR
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S19	17	S S15 NOT (S10 OR S13 OR S18)
S20	14	S S19 AND IC=G06F?
S21	6	S S20 NOT AD=20030804:20080117/PR
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S23	12	S S7 AND (BILINGUAL OR MULTILINGUAL OR (BI OR MULTI) () LINGUAL)
S24	12	S S23 NOT (S10 OR S13 OR S18 OR S21)
S25	11	S S24 AND IC=G06F?
S26	6	S S25 NOT AD=20030804:20080117/PR

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